

**SYSTEM AND METHODS FOR FACILITATING ADAPTIVE**  
**GRID-BASED DOCUMENT LAYOUT**

**ABSTRACT OF THE INVENTION**

5           A system and methods for facilitating adaptive grid-based document layout. More  
particularly, the present invention features a new approach to adaptive grid-based document  
layout that utilizes a set of adaptive templates that are configurable in a range of different pages  
sizes and viewing conditions. The templates include various element types and constraint-based  
relationships that define the layout of elements with reference to viewing conditions under which  
10 the document content will be displayed and that define other content properties. Through a  
layout engine and paginator, the present invention determines a desirable sequence of templates  
to use for adapting document content. Additionally, the present invention provides a template  
authoring tool and user interface for interactively drawing and arranging layout elements within  
an adaptive template.